

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
1-19, 133-151, 65-78, 193-211, 225-233.
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|--|
| X | US 5 184 135 A (PARADISE RONALD Y) 2 February 1993 (1993-02-02) | 1, 65, 133, 193, 225 |
| A | abstract column 2, line 6 -column 4, line 50; figures 1, 2 | 8-10, 13-15, 17, 78, 140-146 |
| A | --- US 4 244 026 A (DICKEY JR FRANK R) 6 January 1981 (1981-01-06) | 1, 8, 13, 17, 65, 133, 193, 225 |
| A | column 4, line 49 -column 20, line 23; figures 1-17 | |
| A | --- US 5 181 039 A (OSWALD GORDON K A ET AL) 19 January 1993 (1993-01-19) | 1, 8, 65, 133, 193, 225 |
| A | abstract column 3, line 12 -column 7, line 38; figures 1-16 | |
| A | --- DE 196 37 843 A (DAIMLER BENZ AEROSPACE AG) 19 March 1998 (1998-03-19) abstract page 1, line 55 -page 6, line 10; figures 1, 2 | 1, 133 |
| | --- -/- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|---|
| A | US 5 829 782 A (JOHNSON WENDELL C ET AL) 3 November 1998 (1998-11-03) cited in the application --- | |
| A | WO 98 00729 A (CAMBRIDGE CONSULTANTS ;CLOUSTON ERIC NICOL (GB); KERRY NICHOLAS JO) 8 January 1998 (1998-01-08) cited in the application --- | |
| A | WO 97 14058 A (CAMBRIDGE CONSULTANTS ;KERRY NICHOLAS JOHN (GB); UTSI PER ARNE VIN) 17 April 1997 (1997-04-17) cited in the application --- | |
| A | WO 98 00728 A (FORD MOTOR CO ;FORD WERKE AG (DE); FORD FRANCE (FR); FORD MOTOR CO) 8 January 1998 (1998-01-08) --- | |
| A | BENLARBI-DELAÏ A ET AL: "Microwave short-range interferometric radar" 1998 INTERNATIONAL CONFERENCE ON MODELING AND SIMULATION OF MICROSYSTEMS, SEMICONDUCTORS, SENSORS AND ACTUATORS, PROCEEDINGS OF MODELLING AND SIMULATION OF MICROSYSTEMS, SEMICONDUCTORS, SENSORS AND ACTUATORS, SANTA CLARA, CA, USA, 6-8 APRIL 1998, pages 637-642, XP001006127 1998, Cambridge, MA, USA, Computational Publications, USA ISBN: 0-9666135-0-3 abstract page 637, left-hand column, paragraph INTRODUCTION -page 642, left-hand column, line CONCLUSION; figures 1-7 ----- | 1,8-13, 65,133, 140-146, 193,225 |

Patent Family Annex

Information on patent family members

International Application No

PCT/GB 01/00500

| Patent document cited in search report | | Publication date | Patent family member(s) | | Publication date |
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Application No: GB 0002857.1
Claims searched: 1-7 and 131

Examiner: Robert Shorthouse
Date of search: 7 April 2000

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.R): H4D (DRPF, DRPZ, DFC, DPAB, DPAC, DLFY, DLPX) G1G (GRC)

Int Cl (Ed.7): G01S 13/00, /44, /50, 17/42, /46

Other: Online: WPI, EPODOC, JAPIO, INSPEC, DIALOG

Documents considered to be relevant:

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|--|--------------------|
| A | GB 2308034 A (SECRETARY OF STATE) See abstract | 1, 131 |
| A | GB 2075301 A (PHILIPS CORP) See abstract | 1, 131 |
| A | US 5174135 (PARADISE) See abstract 8 | 1,131 |

AMENDED AFTER 7/C WITH
EXAMINER

Ret claim 1.

| | | | |
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| X | Document indicating lack of novelty or inventive step | A | Document indicating technological background and/or state of the art. |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |



INVESTOR IN PEOPLE

Application No: GB 0002857.1
Claims searched: 17-39, 148-181

(20-64)

Examiner: Simon Berry
Date of search: 17 January 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): G1G (GRA); H4D (DLAB, DLRC, DLPD, DLRE, DLRG, DRPA, DRPB, DRPC, DRPD)

Int CI (Ed.7): G01S 13/93, 15/93, 17/93

Other: ONLINE DATABASES: EPODOC, WPI, JAPIO

Documents considered to be relevant:

Per claim 20

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|--------------------|
| X | GB 2328820 A (MANDAIR) See whole document. Note triggering of alarm when 'safe distance' is breached. | 17,148 at least |
| X | GB 2324864 A (AUTOMOTIVE TECHNOLOGIES) Vehicle interior monitoring of presence/position of occupants. See whole document. | 17,148 at least |
| X | GB 2315179 A (FUJI) See whole document. Note establishment of 'safe inter-vehicle distance' and warning system. | 17,148 at least |
| X | GB 2309555 A (ROVER GROUP LTD.) See whole document. Note 'safety area' in abstract and associated control. | 17,148 at least |
| X | EP 0188757 A1 (SIEMENS AG) See WPI abstract and Figure 1. Note input of 'monitoring zone' for protection by microwave antenna. | 17,148 at least |

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|---|---|---|--|
| X | Document indicating lack of novelty or inventive step | A | Document indicating technological background and/or state of the art. |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
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INVESTOR IN PEOPLE

Application No: GB 0002857.1
Claims searched: 17-39, 148-181

Examiner: Simon Berry
Date of search: 17 January 2001

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|--------------------|
| X | EP 0023625 A2 (DORNIER SYSTEM GMBH) See abstract and Figure 2. Note establishment of 'solid zone' A for triggering of alarm. | 17,148 at least |
| X | US 4952939 (SEED) See whole document, including 'detection zone' and subsequent detection and processing. | 17,148 at least |
| X | US 4595924 (GENERAL DYNAMICS) See whole document. Note 'surveillance zone' and detection arrangement. | 17,148 at least |

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INVESTOR IN PEOPLE

Application No: GB 0002857.1
Claims searched: 77-88, 201-213

(94)

Examiner: Simon Berry
Date of search: 17 January 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): H4D (DD, DX, DMXX, DRPZ, DRPA)

Int Cl (Ed.7): G01S 7/41, 7/48

Other: ONLINE DATABASES: EPODOC, WPI, JAPIO

Documents considered to be relevant:

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|--------------------|
| X | GB 2252217 A (TZN) See whole document, especially abstract and Figure 1. | 77,201 at least |
| A | US 5392050 (GRUMMAN AEROSPACE CORP) See whole document. Note use of comparison with stored data. | |
| X | US 5386737 (GRUMMAN AEROSPACE CORP) See whole document | 77,201 at least |
| X | WPI Abstract Accession No. 75-A3113W & DE 2329690 (PHILIPS), See WPI abstract. | 77,201 at least |

Re Claim 94

| | | | |
|---|---|---|--|
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| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |



INVESTOR IN PEOPLE

Application No: GB 0002857.1

Claims searched: 89-99

(110)

Examiner: Simon Berry

Date of search: 17 January 2001

Patents Act 1977**Search Report under Section 17****Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): H1Q (QBE, QBX); H4D (DRPB, DRPF, DRPN, DRPP, DRPQ, DRPZ)

Int Cl (Ed.7): H01Q 21/00, 21/06; G01S 13/00

Other: ONLINE DATABASES: EPODOC, WPI, JAPIO

Documents considered to be relevant:Pet Claim 110
(109).

| Category | Identity of document and relevant passage | | Relevant to claims |
|----------|---|---|--------------------|
| X | GB 2336261 A | (VALENTINO) Tracking system antenna array operating in the microwave band. See whole document, especially abstract and Figure 1. | 89 to 92 at least |
| X | GB 2328819 A | (FORD) Note antennae clusters 43,45,47,49 with transmitters and plurality of receivers in Figures and abstract. | 89,90 at least |
| X | GB 2038132 A | (THOMAS AND DODS) See whole document. Note transmitter /receiver array 8,10,12 mounted on vehicle bumper. | 89 |
| X | EP 0831553 A | (HONDA) Antenna array for vehicle object avoidance. See whole document, noting arrangement of transmit (12) and receive (14) elements. | 89 at least |

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|---|---|---|--|
| X | Document indicating lack of novelty or inventive step | A | Document indicating technological background and/or state of the art. |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |



Application No: GB 0002857.1
 Claims searched: 53-57, 182-186

Examiner: Simon Berry
 Date of search: 18 January 2001

19

Patents Act 1977 Further Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): H4D (DLPA, DLSX, DRPF, DRPU, DRPX)

Int Cl (Ed.7): G01S 7/00, 7/285, 7/486, 7/526, 13/00, 13/02, 13/18, 13/44, 15/42, 17/42

Other: ONLINE DATABASES: EPODOC, WPI, JAPIO

Documents considered to be relevant:

pet Claim 65

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|--|--------------------|
| X | GB 2307811 A (BRITISH GAS PLC) Measuring device. See particularly page 7, line 15 to page 8, line 5. Note description of variable sampling. | 53,182 at least |
| X | WO 96/07932 A1 (ZIRCON CORPORATION) Radar system with continuously varying range gate delay. See abstract. | 53,182 at least |
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| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |



INVESTOR IN PEOPLE

Application No: GB 0002857.1
Claims searched: 62-76, 187-200

Examiner: Simon Berry
Date of search: 22 January 2001

65
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Patents Act 1977 Further Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.S): G1G (GRA); H4D (DFC, DLAB, DLRC, DLRE, DLRG, DLPD, DRPA, DRPC, DRPD, DRPF, DRPZ)

Int CI (Ed.7): G01S 13/00, 13/44

Other: ONLINE DATABASES: EPODOC, WPI, JAPIO

Documents considered to be relevant:

PET Claim 78
(now dependent)

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|--------------------|
| X | WO 97/14058 A1 (CAMBRIDGE CONSULTANTS LTD.) See whole document. Note generation of 3-D position data for detected objects. | 62, 187 at least |
| X | WO 89/06808 A1 (PAOLETTI) See whole document. Note angular measurement using radar and windscreen display. | 62, 187 at least |
| X | Skolnik, M. I., Radar Handbook, 2nd edition, McGraw-Hill 1990. See 18.17 to 18.19, 'Phase-Comparison Monopulse'. | 62, 187 at least |

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|---|---|---|--|
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| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |